

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application.

**Listing of Claims:**

1. (Currently Amended) A digital transmitter-receiver comprising:

a receiving unit for receiving digital data transmitted in accordance with a first transmission protocol;

a transcoder for converting the received data to data in accordance with a second transmission protocol; and

a transmitting unit for transmitting output data from said transcoder to a terminal apparatus,

wherein said transmitting unit monitors a transmission state to the terminal apparatus and feeds back monitoring results to inform ~~informs~~ said transcoder of the transmission state,

wherein said transcoder, based on the feed back transmission state, changes and outputs data rate of the digital data to adapt to the transmission state.

2. (Currently Amended) The digital transmitter-receiver according to claim 1 further comprising a first switching unit,

~~wherein number of said~~ and a plurality of receiving units ~~is plural~~,

wherein said first switching unit selects the digital data received by said plurality of receiving units, and feeds the digital data to said transcoder.

3. (Currently Amended) The digital transmitter-receiver according to claim 2 further comprising a second switching unit,

~~wherein number of said~~ and a plurality of transmitting units ~~is plural~~,

wherein output from said transcoder is fed into a transmitting unit selected by said second switching unit.

4. (Original) The digital transmitter-receiver according to claim 2,

wherein said first switching unit selects one of said plurality of receiving units responsive to a request of the terminal apparatus.

5. (Original) The digital transmitter-receiver according to claim 3,

wherein said first switching unit selects one of said plurality of receiving units responsive to a request of the terminal apparatus.

6. (Original) The digital transmitter-receiver according to claim 3,

wherein said second switching unit selects one of said plurality of transmitting units responsive to a request of the terminal apparatus.

7. (Original) The digital transmitter-receiver according to claim 5,

wherein said second switching unit selects one of said plurality of transmitting units responsive to a request of the terminal apparatus.

8. (Previously Presented) The digital transmitter-receiver according to claim 1,

wherein the digital data is a first MPEG transport stream,

wherein said transcoder separates a video elementary stream and an audio elementary stream from the MPEG transport stream, reduces data rate of the video elementary stream by at least one of thinning of a picture from the video elementary stream and thinning of a high frequency component of a discrete-cosine-transform (DCT) coefficient, and outputs a second MPEG transport stream by multiplexing the video elementary stream after the rate reduction and the audio elementary stream .

9. (Previously Presented) The digital transmitter-receiver according to claim 2,

wherein the digital data is a first MPEG transport stream,

wherein said transcoder separates a video elementary stream and an audio elementary stream from the MPEG transport stream, reduces data rate of the video elementary stream by at least one of thinning of a picture from the video elementary stream and thinning of a high frequency component of a discrete-cosine-transform (DCT) coefficient, and outputs a second MPEG transport stream by multiplexing the video elementary stream after the rate reduction and the audio elementary stream .

10. (Previously Presented) The digital transmitter-receiver according to claim 3,  
wherein the digital data is a first MPEG transport stream,

wherein said transcoder separates a video elementary stream and an audio elementary stream from the MPEG transport stream, reduces data rate of the video elementary stream by at least one of thinning of a picture from the video elementary stream and thinning of a high frequency component of a discrete-cosine-transform (DCT) coefficient, and outputs a second MPEG transport stream by multiplexing the video elementary stream after the rate reduction and the audio elementary stream .

11. (Previously Presented) The digital transmitter-receiver according to claim 4,  
wherein the digital data is a first MPEG transport stream,

wherein said transcoder separates a video elementary stream and an audio elementary stream from the MPEG transport stream, reduces data rate of the video elementary stream by at least one of thinning of a picture from the video elementary stream and thinning of a high frequency component of a discrete-cosine-transform (DCT) coefficient, and outputs a second MPEG transport stream by multiplexing the video elementary stream after the rate reduction and the audio elementary stream .

12. (Previously Presented) The digital transmitter-receiver according to claim 5,  
wherein the digital data is a first MPEG transport stream,

wherein said transcoder separates a video elementary stream and an audio elementary stream from the MPEG transport stream, reduces data rate of the video elementary stream by at least one of thinning of a picture from the video elementary stream and thinning of a high frequency component of a discrete-cosine-transform

(DCT) coefficient, and outputs a second MPEG transport stream by multiplexing the video elementary stream after the rate reduction and the audio elementary stream .

13. (Previously Presented) The digital transmitter-receiver according to claim 6,  
wherein the digital data is a first MPEG transport stream,

wherein said transcoder separates a video elementary stream and an audio elementary stream from the MPEG transport stream, reduces data rate of the video elementary stream by at least one of thinning of a picture from the video elementary stream and thinning of a high frequency component of a discrete-cosine-transform (DCT) coefficient, and outputs a second MPEG transport stream by multiplexing the video elementary stream after the rate reduction and the audio elementary stream .

14. (Previously Presented) The digital transmitter-receiver according to claim 7,  
wherein the digital data is a first MPEG transport stream,

wherein said transcoder separates a video elementary stream and an audio elementary stream from the MPEG transport stream, reduces data rate of the video elementary stream by at least one of thinning of a picture from the video elementary stream and thinning of a high frequency component of a discrete-cosine-transform (DCT) coefficient, and outputs a second MPEG transport stream by multiplexing the video elementary stream after the rate reduction and the audio elementary stream.